



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
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**D119-796-251**  
**Job Sheet 187256**



**Part No:** D119-796-251

**Job Qty:** 1 pcs

**Part Name:** Aft Crosstube Installation With Step (No Hardware)



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 11/29/18

**Job Tracking No:**

**Due Date:** 1/31/19

**Created By:** Jesse White

**Type:** Stock

**Description:**

**Note:** DWG D119-796-251 REV E, IIN-D119-796 REV F IPP REV:A 14.09.09 NEW ISSUE DD VERF:JLM IPP  
REV:B 14.10.15 AS PER REV.A DD VERF:JLM IPP REV:C 14.11.19 AS PER REV.C DD VERF:JLM IPP  
REV:D 14.12.09 AS PER REV.PC6 DD VERF:JLM IPP REV:E 15.02.11 AS PER REV D JLM VERF:DD IPP  
REV:F 17.12.11 REMOVE PACK KIT DD VERF:DP

**Ship Via:**

### Bill of Materials

### Job Routing

| Op<br>No | Operation                      | Qty   | Start Date | Due<br>Date | Standard     |            | Workcenter/Supplier   |           | Sign-off                                        |
|----------|--------------------------------|-------|------------|-------------|--------------|------------|-----------------------|-----------|-------------------------------------------------|
|          |                                |       |            |             | Setup<br>Hrs | Run<br>Hrs | Workcenter / Supplier | Lead Time |                                                 |
| 130      | Crosstubes - 1                 | 1 pcs | 1/31/19    |             | 0.00         | 0.51       | Crosstubes - 1        |           |                                                 |
|          |                                |       |            |             |              |            | Crosstubes - 2        |           |                                                 |
|          |                                |       |            |             |              |            | Crosstubes - 3        |           |                                                 |
|          |                                |       |            |             |              |            | Crosstubes - 4        |           |                                                 |
| 140      | QC 5                           | 1 pcs | 1/31/19    |             | 0.00         | 0.00       | QC 5 - 10             |           | APR 19-4-8<br><br>DAS<br>APR 08 2019 68<br>9-89 |
|          |                                |       |            |             |              |            | QC 5 - 12             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 17             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 18             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 19             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 22             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 24             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 3              |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 43             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 49             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 51             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 58             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 68             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 9              |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 50             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 30             |           |                                                 |
|          |                                |       |            |             |              |            | QC 5 - 40             |           |                                                 |
| 142      | Packaging 1-1 - Pick Kit - B4B | 1 pcs | 1/31/19    |             | 0.00         | 0.00       | Packaging 1 - 1 - B4B |           | NR                                              |
|          |                                |       |            |             |              |            | Packaging 1 - 2 - B4B |           |                                                 |
|          |                                |       |            |             |              |            | Packaging 1 - 3 - B4B |           |                                                 |
|          |                                |       |            |             |              |            | Packaging 1 - 4 - B4B |           |                                                 |
|          |                                |       |            |             |              |            | Packaging 1 - 5 - B4B |           |                                                 |
|          |                                |       |            |             |              |            | Packaging 1 - 6 - B4B |           |                                                 |
|          |                                |       |            |             |              |            | Packaging 1 - 7 - B4B |           |                                                 |
|          |                                |       |            |             |              |            | Packaging 1 - 8 - B4B |           |                                                 |



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Container No: S170446



Part: D119-796-251

Job No: 187256

Serial No/Batch: S170446

Revision: E/F

Inspector:

Exp Date:

Instructions: TC STC SH14-45-1 Issued at: 15/01/28, EASA

|                        |                    |  |  |                                          |           |         |           |                       |    |
|------------------------|--------------------|--|--|------------------------------------------|-----------|---------|-----------|-----------------------|----|
|                        |                    |  |  | Packaging 1 - 9 - B4B                    |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 10 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 11 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 12 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 13 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 14 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 15 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 16 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 17 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 18 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 19 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 20 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 21 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 22 - B4B                   | Ad 19-4-8 |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 23 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 24 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 25 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 26 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 27 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 28 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 29 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 30 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 31 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 32 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 33 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 34 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 35 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | Packaging 1 - 36 - B4B                   |           |         |           |                       |    |
|                        |                    |  |  | 143 QC 4                                 | 1 pcs     | 1/31/19 | 0.00 0.00 | QC 4 - 28             | NR |
|                        |                    |  |  |                                          |           |         |           | QC 4 - 58             |    |
|                        |                    |  |  |                                          |           |         |           | QC 4 - 69             |    |
|                        |                    |  |  |                                          |           |         |           | QC 4 - 9              |    |
|                        |                    |  |  |                                          |           |         |           | QC 4 - 46             |    |
|                        |                    |  |  | 145 DC - 1 - B4B                         | 1 pcs     | 1/31/19 | 0.00 0.00 | DC - 1 - B4B          | NR |
|                        |                    |  |  |                                          |           |         |           | DC - 2 - B4B          |    |
|                        |                    |  |  | 150 Packaging 3-1 - Stock - B4B          | 1 pcs     | 1/31/19 | 0.00 0.00 | Packaging 3 - 1 - B4B |    |
| Packaging 3 - 2 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 3 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 4 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 5 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 6 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 7 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 8 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 9 - B4B  |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 10 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 11 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 12 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 13 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 14 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 15 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 16 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 17 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 18 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 19 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 20 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 21 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 22 - B4B | LG 050 : Ad 19-4-8 |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 23 - B4B |                    |  |  |                                          |           |         |           |                       |    |
| Packaging 3 - 24 - B4B |                    |  |  |                                          |           |         |           |                       |    |
|                        |                    |  |  | Plex 4/8/19 11:41 AM Dart.Hadley.Shannon |           |         |           |                       |    |

|     |            |       |         |           |                        |                   |
|-----|------------|-------|---------|-----------|------------------------|-------------------|
|     |            |       |         |           | Packaging 3 - 25 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 26 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 27 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 28 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 29 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 30 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 31 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 32 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 33 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 34 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 35 - B4B |                   |
|     |            |       |         |           | Packaging 3 - 36 - B4B |                   |
| 160 | QC 21 - FG | 1 pcs | 1/31/19 | 0.00 0.00 | QC 21 - FG - 21        | DAE<br>21<br>3-26 |
|     |            |       |         |           | QC 21 - FG - 70        | APR 08 2019       |
|     |            |       |         |           | QC 21 - FG - 53        |                   |

Part Op **130** - 1- Install step and clamp with the proper position per dwg D119-796-251 \*\*\*Torque all clamps to 50 IN-LBS max.\*\*\*  
 Descriptions: **140** - (QC5- Inspect part completeness to step on W/O) \*\*\*RE-CHECK TORCQUE ON CLAMP AS PER DWG.\*\*\*  
**142** - (Pick Kit)  
**143** - (QC4- 100% Inspect kits for completeness)  
**145** - Photocopy bluefile and create labels as per PPP D119-796-251 chg 004  
**150** - (Identify as per dwg & Stock Location: \_\_\_\_\_) Identify and pack for shipping as per PPP D119-796-251  
**160** - (QC21- Final Inspection - Work Order Release)

| Job BOM      |                                                       |              |                    |           |
|--------------|-------------------------------------------------------|--------------|--------------------|-----------|
| Part / Item  | Component Name                                        | Quantity     | Operation          | Container |
| D119-796-241 | Aft Crosstube Installation Without Step (No Hardware) | 1 pcs (1 ea) | 130-Crosstubes - 1 |           |
| D5149-043    | Aft Step Base Assembly                                | 2 pcs (2 ea) | 130-Crosstubes - 1 |           |

| Job Allocations    |                |          |           |           |
|--------------------|----------------|----------|-----------|-----------|
| Operation          | Component Part | Required | Inventory | Allocated |
| 130-Crosstubes - 1 | D119-796-241   | 1        | 2         | 0         |
|                    | D5149-043      | 2        | 4         | 0         |

| Part Specifications                |  |
|------------------------------------|--|
| Specifications could not be found. |  |





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**D119-796-251**  
**Job Sheet 187256**



**Part No:** D119-796-251

**Job Qty:** 1 ea

**Part Name:** Aft Crosstube Installation With Step (No Hardware)



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 11/29/18

**Job Tracking No:**

**Due Date:** 1/31/19

**Created By:** Jesse White

**Type:** Stock

**Description:**

**Note:** DWG D119-796-251 REV E, IIN-D119-796 REV F IPP REV:A 14.09.09 NEW ISSUE DD VERF:JLM IPP REV:B 14.10.15 AS PER REV.A DD VERF:JLM IPP REV:C 14.11.19 AS PER REV.C DD VERF:JLM IPP REV:D 14.12.09 AS PER REV.PC6 DD VERF:JLM IPP REV:E 15.02.11 AS PER REV D JLM VERF:DD IPP REV:F 17.12.11 REMOVE PACK KIT DD VERF:DP

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                    |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 90    | Start up Operation | 1 Ea  |            | 1/31/19  | 0.00      | 0.00    | Start Up Crosstubes-1 |           |          |
| 130   | Crosstubes         | 1 pcs |            | 1/31/19  | 0.00      | 0.51    | Crosstubes-1          |           |          |
| 140   | QC                 | 1 pcs |            | 1/31/19  | 0.00      | 0.00    | QC5                   |           |          |
| 142   | Packaging          | 1 pcs |            | 1/31/19  | 0.00      | 0.00    | Packaging1-6          |           |          |
| 143   | QC                 | 1 pcs |            | 1/31/19  | 0.00      | 0.00    | QC4                   |           |          |
| 145   | DC                 | 1 pcs |            | 1/31/19  | 0.00      | 0.00    | DC                    |           |          |
| 150   | Packaging          | 1 pcs |            | 1/31/19  | 0.00      | 0.00    | Packaging3-1          |           |          |
| 160   | QC21-FG            | 1 Ea  |            | 1/31/19  | 0.00      | 0.00    | QC21                  |           |          |

Part Op 130 - 1- Install step and clamp with the proper position per dwg D119-796-251 \*\*\*Torque all clamps to 50 IN-LBS max.\*\*\*  
Descriptions: 140 - \*\*\*RE-CHECK TORCQUE ON CLAMP AS PER DWG.\*\*\*  
145 - Photocopy bluefile and create labels as per PPP D119-796-251 chg 004  
150 - Identify and pack for shipping as per PPP D119-796-251

### Job BOM

| Part / Item  | Component Name                                        | Quantity    | Operation             | Container |
|--------------|-------------------------------------------------------|-------------|-----------------------|-----------|
| D119-796-241 | Aft Crosstube Installation Without Step (No Hardware) | 1 Ea (1 ea) | 90-Start up Operation |           |
| D5123-3      | Clamp Cushion                                         | 4 Ea (4 ea) | 90-Start up Operation |           |
| D5149-043    | Aft Step Base Assembly                                | 2 Ea (2 ea) | 90-Start up Operation |           |
| MS21920-25   | Clamp                                                 | 4 Ea (4 ea) | 90-Start up Operation |           |

### Job Allocations

| Operation                    | Component Part       | Required  | Inventory | Allocated |
|------------------------------|----------------------|-----------|-----------|-----------|
| 90-Start up Operation 187570 | D119-796-241 5155524 | ① 5188514 | 0         | 0         |
|                              | D5123-3              | ④ 079324  | 253       | 0         |
|                              | D5149-043            | ② 5156653 | 8         | 0         |
|                              | MS21920-25           | ⑤ 5142130 | 240       | 0         |

⑤ → 1 scrap

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                      |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
| <b>Root Cause</b><br><br><div style="display: flex;"> <div style="flex: 1;">           Operator <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Presservation <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Human Factors <input type="checkbox"/> </div> <div style="flex: 1;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="flex: 1;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="flex: 1;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |

**Part Specifications**

Specifications could not be found.

Plex 11/29/18 10:49 AM dart.white.jesse



Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |